Post Office Electrical Engineers' Journal

Volume 43, April 1950—January 1951

INDEX

A

PAGE NO.

Alderson, J. H. A Method of Reducing the Vibration from Diesel Engine Generating Sets 43
Articulation Tests, A Reference Telephone System for .. 1

B

Balcombe, F. G., and D. E. Watt-Carter. Burnham Radio Station 117
Bomford, K. D., and A. H. F. Hunt. A Survey of Modern Radio Valves (Part 4) 10
Book Reviews 7, 17, 22, 35, 48, 68, 84, 99, 124, 134, 141, 168, 176, 191, 197, 218
Booth, Capt. C. F., and A. H. Mumford. Television Radio-Relay Links 23
Booth, Capt. C. F., A. H. Mumford and R. W. White. The London-Castleton Experimental Radio-Relay System 93
Boreholes, A Novel Method of Surveying 129
Bray, P. R. The Calculation of Phase Constant from Small Differences of Open and Closed Impedance 200
Bray, P. R. Testing Facilities in H.M.T.S. *Monarch* .. 36
Bray, W. J. A Survey of Modern Radio Valves (Part 6 (*a*)) 148
(Part 6 (*b*)) 187
Buoy Recovery, Improved Method of Cable 8
Burnham Radio Station 117

C

Cable Buoy Recovery, Improved Method of 8
Cable in H.M.T.S. *Monarch*, The Electrical Power System for Handling 102
Calculation of Phase Constant from Small Differences of Open and Closed Impedance, The 200
Castleton Experimental Radio-Relay System, The London- 93
Centenary Meeting (*Oliver Heaviside*), 18th May, 1950, Notes on the 101
Chadburn, C. G., E. C. H. Seaman and D. A. Crow. The Use of a Piston Attenuator for Cable Testing in the Frequency Range 1-30 Mc/s 192
Chapman, R. H., and E. C. Shipley. A Drawing Office Aid in Isometric Projection 184
Commission Mixte Internationale (C.M.I.), Paris, 1950 205
Crow, D. A., E. C. H. Seaman and C. G. Chadburn. The Use of a Piston Attenuator for Cable Testing in the Frequency Range 1-30 Mc/s 192

D

Desiccator Employing Silica Gel, A Trailer Motor 165
Design of Square-Law Rectifier Circuits for Measuring Instruments 74
de Wardt, R. H., and J. Swaffield. A Reference Telephone System for Articulation Tests .. 1
Dialling, National Trunk 169
Diesel Engine Generating Sets, A Method of Reducing the Vibration from 43
Distortion Measuring Set for Start-Stop Telegraph Signals, An Electronic 18
Dolan, W. H., and A. Morris. Local Line Plant: Pair Appropriation Records 69
Doors, Power-Operated 135
Drawing Office Aid in Isometric Projection, A .. 184

E

PAGE NO.

Edinburgh Conversion from Non-Director to Director 142
Electrical Power System for Handling Cable in H.M.T.S. *Monarch*, The 102
Electronic Automatic Telephone Exchanges, Introduction to:
Speech Path Switches and Line Signalling .. 61
Register Translators 177
Electronic Distortion Measuring Set for Start-Stop Telegraph Signals, An 18

F

Flowers, T. H. Introduction to Electronic Automatic Telephone Exchanges:
Speech Path Switches and Line Signalling .. 61
Register Translators 177
Frost, P. B. The Leakage of Direct Current and Potential Gradients in the Ground 125

G

Generating Sets, A Method of Reducing the Vibration from Diesel Engine 43
Gibson, R. W. National Trunk Dialling 169
Gill, Sir Archibald's, I.E.E. Presidential Address .. 209
Gill, Sir Frank—Obituary 207

H

Harris, D. J. Power-Operated Doors 135
Heaviside, Oliver:
An Appreciation 100
Notes on the Centenary Meeting, 18th May, 1950 101
Helm, Capt. S. The Recovery of Two Timber Lattice Masts 16
Horton, G. P., D. C. Walker and D. L. Richards. Design of Square-Law Rectifier Circuits for Measuring Instruments 74
Hunt, A. H. F., and K. D. Bomford. A Survey of Modern Radio Valves (Part 4) 10

I

I.E.E. Presidential Address, Sir Archibald Gill's .. 209
Implementation of the New Radio Frequency Allocation Table, The 202
Improved Method of Cable Buoy Recovery 8
Institution of Post Office Electrical Engineers 50, 107, 153, 210
Introduction to Electronic Automatic Telephone Exchanges:
Speech Path Switches and Line Signalling .. 61
Register-Translators 177
Isometric Projection, A Drawing Office Aid in .. 184

J

Jones, C. E. Palmer. A Novel Method of Surveying Boreholes 129
Junior Section Notes 54, 112, 154, 217

L

Leakage of Direct Current and Potential Gradients in the Ground, The 125
Lee, Sir George. Oliver Heaviside—An Appreciation 100
Local Line Plant: Pair Appropriation Records .. 69
London-Castleton Experimental Radio-Relay System, The 93

Post Office Electrical Engineers' Journal

Volume 43, April 1950—January 1951

INDEX

A

PAGE NO.

Alderson, J. H. A Method of Reducing the Vibration from Diesel Engine Generating Sets 43
Articulation Tests, A Reference Telephone System for .. 1

B

Balcombe, F. G., and D. E. Watt-Carter. Burnham Radio Station 117
Bomford, K. D., and A. H. F. Hunt. A Survey of Modern Radio Valves (Part 4) 10
Book Reviews 7, 17, 22, 35, 48, 68, 84, 99, 124, 134, 141, 168, 176, 191, 197, 218
Booth, Capt. C. F., and A. H. Mumford. Television Radio-Relay Links 23
Booth, Capt. C. F., A. H. Mumford and R. W. White. The London-Castleton Experimental Radio-Relay System 93
Boreholes, A Novel Method of Surveying 129
Bray, P. R. The Calculation of Phase Constant from Small Differences of Open and Closed Impedance 200
Bray, P. R. Testing Facilities in H.M.T.S. *Monarch* .. 36
Bray, W. J. A Survey of Modern Radio Valves (Part 6 (*a*)) 148
(Part 6 (*b*)) 187
Buoy Recovery, Improved Method of Cable 8
Burnham Radio Station 117

C

Cable Buoy Recovery, Improved Method of 8
Cable in H.M.T.S. *Monarch*, The Electrical Power System for Handling 102
Calculation of Phase Constant from Small Differences of Open and Closed Impedance, The 200
Castleton Experimental Radio-Relay System, The London- 93
Centenary Meeting (*Oliver Heaviside*), 18th May, 1950, Notes on the 101
Chadburn, C. G., E. C. H. Seaman and D. A. Crow. The Use of a Piston Attenuator for Cable Testing in the Frequency Range 1-30 Mc/s 192
Chapman, R. H., and E. C. Shipley. A Drawing Office Aid in Isometric Projection 184
Commission Mixte Internationale (C.M.I.), Paris, 1950 205
Crow, D. A., E. C. H. Seaman and C. G. Chadburn. The Use of a Piston Attenuator for Cable Testing in the Frequency Range 1-30 Mc/s 192

D

Desiccator Employing Silica Gel, A Trailer Motor 165
Design of Square-Law Rectifier Circuits for Measuring Instruments 74
de Wardt, R. H., and J. Swaffield. A Reference Telephone System for Articulation Tests .. 1
Dialling, National Trunk 169
Diesel Engine Generating Sets, A Method of Reducing the Vibration from 43
Distortion Measuring Set for Start-Stop Telegraph Signals, An Electronic 18
Dolan, W. H., and A. Morris. Local Line Plant: Pair Appropriation Records 69
Doors, Power-Operated 135
Drawing Office Aid in Isometric Projection, A .. 184

E

PAGE NO.

Edinburgh Conversion from Non-Director to Director 142
Electrical Power System for Handling Cable in H.M.T.S. *Monarch*, The 102
Electronic Automatic Telephone Exchanges, Introduction to:
Speech Path Switches and Line Signalling .. 61
Register Translators 177
Electronic Distortion Measuring Set for Start-Stop Telegraph Signals, An 18

F

Flowers, T. H. Introduction to Electronic Automatic Telephone Exchanges:
Speech Path Switches and Line Signalling .. 61
Register Translators 177
Frost, P. B. The Leakage of Direct Current and Potential Gradients in the Ground 125

G

Generating Sets, A Method of Reducing the Vibration from Diesel Engine 43
Gibson, R. W. National Trunk Dialling 169
Gill, Sir Archibald's, I.E.E. Presidential Address .. 209
Gill, Sir Frank—Obituary 207

H

Harris, D. J. Power-Operated Doors 135
Heaviside, Oliver:
An Appreciation 100
Notes on the Centenary Meeting, 18th May, 1950 101
Helm, Capt. S. The Recovery of Two Timber Lattice Masts 16
Horton, G. P., D. C. Walker and D. L. Richards. Design of Square-Law Rectifier Circuits for Measuring Instruments 74
Hunt, A. H. F., and K. D. Bomford. A Survey of Modern Radio Valves (Part 4) 10

I

I.E.E. Presidential Address, Sir Archibald Gill's .. 209
Implementation of the New Radio Frequency Allocation Table, The 202
Improved Method of Cable Buoy Recovery 8
Institution of Post Office Electrical Engineers 50, 107, 153, 210
Introduction to Electronic Automatic Telephone Exchanges:
Speech Path Switches and Line Signalling .. 61
Register-Translators 177
Isometric Projection, A Drawing Office Aid in .. 184

J

Jones, C. E. Palmer. A Novel Method of Surveying Boreholes 129
Junior Section Notes 54, 112, 154, 217

L

Leakage of Direct Current and Potential Gradients in the Ground, The 125
Lee, Sir George. Oliver Heaviside—An Appreciation 100
Local Line Plant: Pair Appropriation Records .. 69
London-Castleton Experimental Radio-Relay System, The 93

M

PAGE NO.

Masts, The Recovery of Two Timber Lattice 16
McWalter, W. V. Edinburgh Conversion from Non-Director to Director 142
Method of Reducing the Vibration from Diesel Engine Generating Sets, A 43
Moffatt, J. J. A Trailer Motor Desiccator Employing Silica Gel 165
Monarch, Testing Facilities in H.M.T.S. 36
Monarch, The Electrical Power System for Handling Cable in H.M.T.S. 102
Morris, A., and W. H. Dolan. Local Line Plant: Pair Appropriation Records 69
Mumford, A. H., and Capt. C. F. Booth. Television Radio-Relay Links 23
Mumford, A. H., Capt. C. F. Booth and R. W. White. The London-Castleton Experimental Radio-Relay System 93

N

National Trunk Dialling 169
Notes and Comments 50, 108, 156, 208
Notes, Junior Section 54, 112, 164, 217
Notes, Regional 51, 108, 157, 212
Novel Method of Surveying Boreholes, A 129

O

Obituary—Sir Frank Gill 207

P

Palmer Jones, C. E. A Novel Method of Surveying Boreholes 129
Phase Constant, The Calculation of, from Small Differences of Open and Closed Impedance .. 209
Phase Measuring Circuit, A Simple 198
Piston Attenuator for Cable Testing in the Frequency Range 1-30 Mc/s, The use of a 192
Polarised Relay of Improved Performance, A .. 85
Potential Gradients in the Ground, The Leakage of Direct Current and 125
Power-Operated Doors 135

R

Radio Frequency Allocation Table, The Implementation of the New 202
Radio-Relay Links, Television 23
Radio-Relay System, The London-Castleton Experimental 93
Radley, W. G. Notes on the Centenary Meeting (*Oliver Heaviside*), 18th May, 1950 101
Recovery of Two Timber Lattice Masts, The 16
Rectifier Circuits for Measuring Instruments, Design of Square-Law 74
Reference Telephone System for Articulation Tests, A 1
Regional Notes 51, 108, 157, 212
Relay of Improved Performance, A Polarised .. 85
Richards, D. L., D. C. Walker and G. P. Horton. Design of Square-Law Rectifier Circuits for Measuring Instruments 74

S

PAGE NO.

Scott, B., and H. A. Turner. A Polarised Relay of Improved Performance 85
Seaman, E. C. H., D. A. Crow and C. G. Chadburn. The Use of a Piston Attenuator for Cable Testing in the Frequency Range 1-30 Mc/s 192
Seymour, R. A. A Simple Phase Measuring Circuit .. 198
Shipley, E. C., and R. H. Chapman. A Drawing Office Aid in Isometric Projection 184
Silica Gel, A Trailer Motor Desiccator Employing .. 165
Simple Phase Measuring Circuit, A 198
Staff Changes 57, 114, 162, 219
Survey of Modern Radio Valves, A:
Part 4.—Transmitting Valves for Use up to 30 Mc/s 10
Part 5.—Valves for Use in the Range 30-3,000 Mc/s (Bands 8 and 9) 78
Part 6 (*a*).—Valves for Use at Frequencies Above 3,000 Mc/s 148
Part 6 (*b*).—Valves for Use at Frequencies Above 3,000 Mc/s 187
Surveying Boreholes, A Novel Method of 129
Swaffield, J., and R. H. de Wardt. A Reference Telephone System for Articulation Tests .. 1

T

Telegraph Signals, An Electronic Distortion Measuring Set for Start-Stop 18
Television Radio-Relay Links 23
Testing Facilities in H.M.T.S. *Monarch* 36
Thomson, A. J. The Electrical Power System for Handling Cable in H.M.T.S. *Monarch* 102
Timber Lattice Masts, The Recovery of Two 16
Tissington, R. S., and L. K. Wheeler. An Electronic Distortion Measuring Set for Start-Stop Telegraph Signals 18
Trailer Motor Desiccator Employing Silica Gel, A .. 165
Turner, H. A., and B. Scott. A Polarised Relay of Improved Performance 85

U

Use of a Piston Attenuator for Cable Testing in the Frequency Range 1-30 Mc/s, The 192

V

Valves, A Survey of Modern Radio .. 10, 78, 148, 187
Vibration from Diesel Engine Generating Sets, A Method of Reducing the 43

W

Walker, D. C., D. L. Richards and G. P. Horton. Design of Square-Law Rectifier Circuits for Measuring Instruments 74
Watt-Carter, D. E., and F. G. Balcombe. Burnham Radio Station 117
Wheeler, L. K., and R. S. Tissington. An Electronic Distortion Measuring Set for Start-Stop Telegraph Signals 18
White, R. W. A Survey of Modern Radio Valves (Part 5) 78
White, R. W., A. H. Mumford and Capt. C. F. Booth. The London-Castleton Experimental Radio-Relay System 93